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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/606,749	06/27/2003	Tsuyoshi Iijima	239135US0	5354
22850 7	590 06/27/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			MARTIN, ANGELA J	
1940 DUKE ST	TREET A, VA 22314		ART UNIT PAPER NUMB	
ALEXANDRIA	A, VA 22514		1745	
			DATE MAILED: 06/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	ν				
	10/606,749	IIJIMA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Angela J. Martin	1745					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address -					
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may reply within the statutory minimum of the statutory minimum of the will expire SIX (6) Monthly that the cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	ation.				
Status		•					
1) Responsive to communication(s) filed on 08	3 April 2005.						
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	∑ This action is FINAL. 2b) This action is non-final.						
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closed in accordance with the practice unde	er Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.					
Disposition of Claims							
4) ⊠ Claim(s) <u>1-9</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are without 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-9</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	Irawn from consideration.						
Application Papers							
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	accepted or b) objected to he drawing(s) be held in abey rection is required if the drawin	ance. See 37 CFR 1.85(a).  g(s) is objected to. See 37 CFR 1.12	` '				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a line in the internation of the papplication from the Internation for a line in the internation for a line in the internation of the papplication from the Internation for a line in the internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the internation of the papplication from the Internation for a line in the Interna	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application Non received in this National Stage					
Attachment(s)		·					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 4/18/05.</li> </ol>	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152) 					

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#### **DETAILED ACTION**

This Office Action is responsive to the Amendment filed on April 8, 2005. The Applicant has amended claim 1 and has added new claim 9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, this action is made final.

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In amended independent claim 1, it is stated that "the entire surface of the outermost layer is covered with the back coat layer and only the outermost layers of the electrode structure are covered with the back coat layers." However, it appears that this statement is new matter.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, 4, 5, 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Sano et al., U.S. Pat. Application Pub. 2003/0113636 A1.

Rejection of claims 1, 2, 4, 5, 7-9 drawn to a lithium secondary battery.

Sano et al., teach a lithium secondary battery wherein a plurality of cathodes and anodes are arranged to construct an electrode structure (abstract; Fig. 1), which includes an outermost layer of electrode on which a back coat layer is formed and wherein the entire surface of the outermost layer is covered with the back coat layer and only the outermost layers of the electrode structure are covered with the back coat layers (sect. 0157-0158). It teaches the back coat layer prevents the electrodes from short-circuiting (sect. 0162-0164). It also teaches the layer contains at least an inorganic material as a resin (sect. 0167). It teaches the filler is the same material as an electrode active material (sect. 0167). It teaches the layer has a thickness of 5-100 um (sect. 0158). It also teaches the electrode structure is a laminate structure (abstract). It teaches the outermost layer of electrode is the negative electrode (sect. 0163).

Thus, the claims are anticipated.

## Claim Rejections - 35 USC § 102/103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 3 and 6 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sano et al., U.S. Pat. Application Pub. 2003/0113636 A1.

Rejection of claims 3 and 6 drawn to a lithium secondary battery.

Sano et al., teach a lithium secondary battery as described above. It teaches the material and thickness of the layer within the above claimed range and would therefore prevent the electrodes from warping. It also teaches the separator is comprises polyolefin, which would have a piercing strength of at least 50 gf. It teaches the filler is the same material as an electrode active material.

Thus, the claims are anticipated.

However, if the claims are not anticipated, in the alternative the claims are obvious because one of ordinary skill in the art would manufacture an electrode, which would not warp and, would provide a separator with a sufficient piercing strength to further prevent short-circuiting.

### Response to Arguments

7. Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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**AJM** 

PATRICK JOSEPH RYAN SUPERVISORY PATENT EXAMINER